

*Excellence in Electronics***TYPE
CK6485**

The CK6485 is a heater-cathode type, high transconductance, sharp cut-off pentode of miniature construction designed for use as a wide band or IF amplifier. It will maintain its emission and freedom from excessive cathode interface resistance even after long periods of operation under cut-off conditions. The CK6485 is otherwise identical with the 6AH6.

MECHANICAL DATAENVELOPE: T-5 1/2 GlassBASE: Miniature Button 7-PinTERMINAL CONNECTIONS:

Pin 1 Grid #1
Pin 2 Grid #3
Pin 3 Heater
Pin 4 Heater

Pin 5 Plate
Pin 6 Grid #2
Pin 7 Cathode

MOUNTING POSITION: Any**ELECTRICAL DATA**DIRECT INTERELECTRODE CAPACITANCES: ($\mu\text{fds.}$)

Grid #1 to Plate: (g1 to p)
Input: g1 to (h+k+g2+g3)
Output: p to (h+k+g2+g3)

Unshielded

0.030
10
2.0

Shielded ●

0.020 max.
10
3.6

DESIGN CENTER MAXIMUM RATINGS:

Heater Voltage
Plate Voltage
Grid #2 Voltage
Plate Dissipation ▲
Grid #2 Dissipation
Cathode Current

6.3 volts
300 volts
150 volts
3.2 watts
0.6 watt
25 ma.

CHARACTERISTICS AND TYPICAL OPERATION:

Heater Voltage
Heater Current
Plate Voltage
Grid #2 Voltage
Cathode Resistor
Plate Resistance
Transconductance
Amplification Factor
Plate Current
Grid #2 Current
Grid #1 Voltage for $I_b = 10 \mu\text{a.}$ (approx.)
Transconductance (Grid #3-Plate)

Pentode
Connected

6.3
0.45
300
150
160
0.5
9000

Triode
Connected

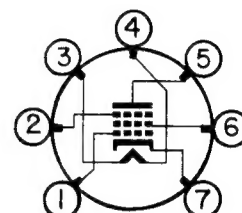
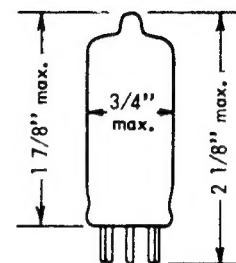
6.3 volts
0.45 amp.
150 volts
⊕ volts
160 ohms
.0036 meg.
11,000 μmhos
40
12.5 ma.
ma.
-7 volts

● Using JETEC Shield #316 connected to cathode.

▲ At maximum ratings, it is necessary that at least one surface of the shield, if used, be blackened.

♦ Grid #3 has practically no control characteristic and it is not intended to be used as a control electrode. Its transconductance to the plate approximates 2 micromhos and the μ is 0.7 to 1.0.

⊕ Grid #2 and Grid #3 tied to plate.



BOTTOM VIEW

7BK

Tentative Data

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RECEIVING AND CATHODE RAY TUBE OPERATIONS

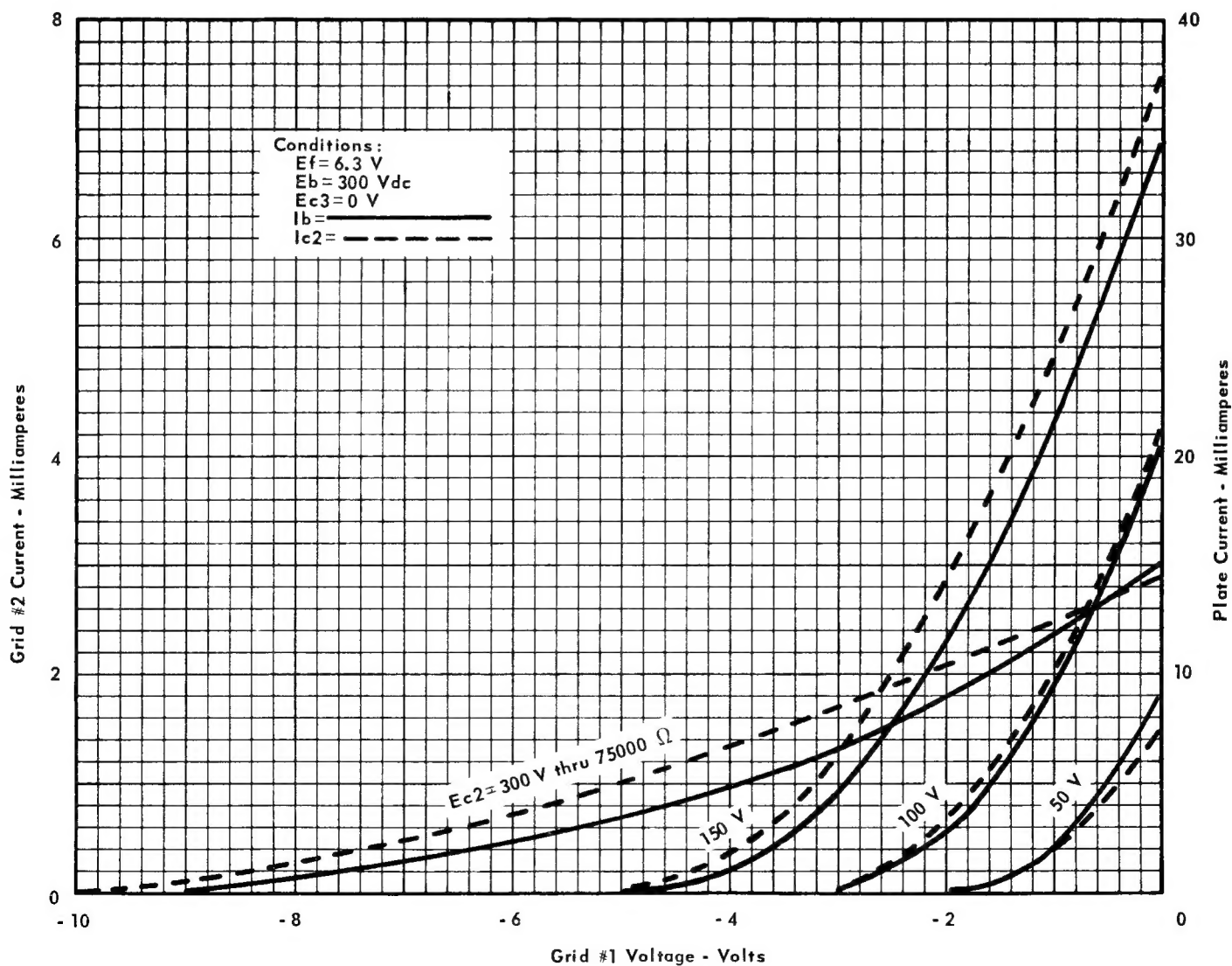


PENTODE

Input Coupling and Sync. Polarity	Output Volts P/P	Voltage Gain	Max. Watts Dissipation		Cathode Resistor Ohms	Cathode Current		Grid Resistor Ohms
			Screen	Plate		No Sig. (ma.)	With Sig. (ma.)	
DC -	66	22	0.6	3.2	39	20	13	5000
DC +	100	25	0.4	3.2	270	8	15	5000
AC -	100	25	0.6	3.2	39	20	21	1 meg.
AC +	100	25	0.6	3.2	39	20	18	1 meg.

All data taken with Screen voltage of 150 and Plate load of 4000 ohms with
typical on-the-air television signals and average production tubes.

AVERAGE CHARACTERISTICS

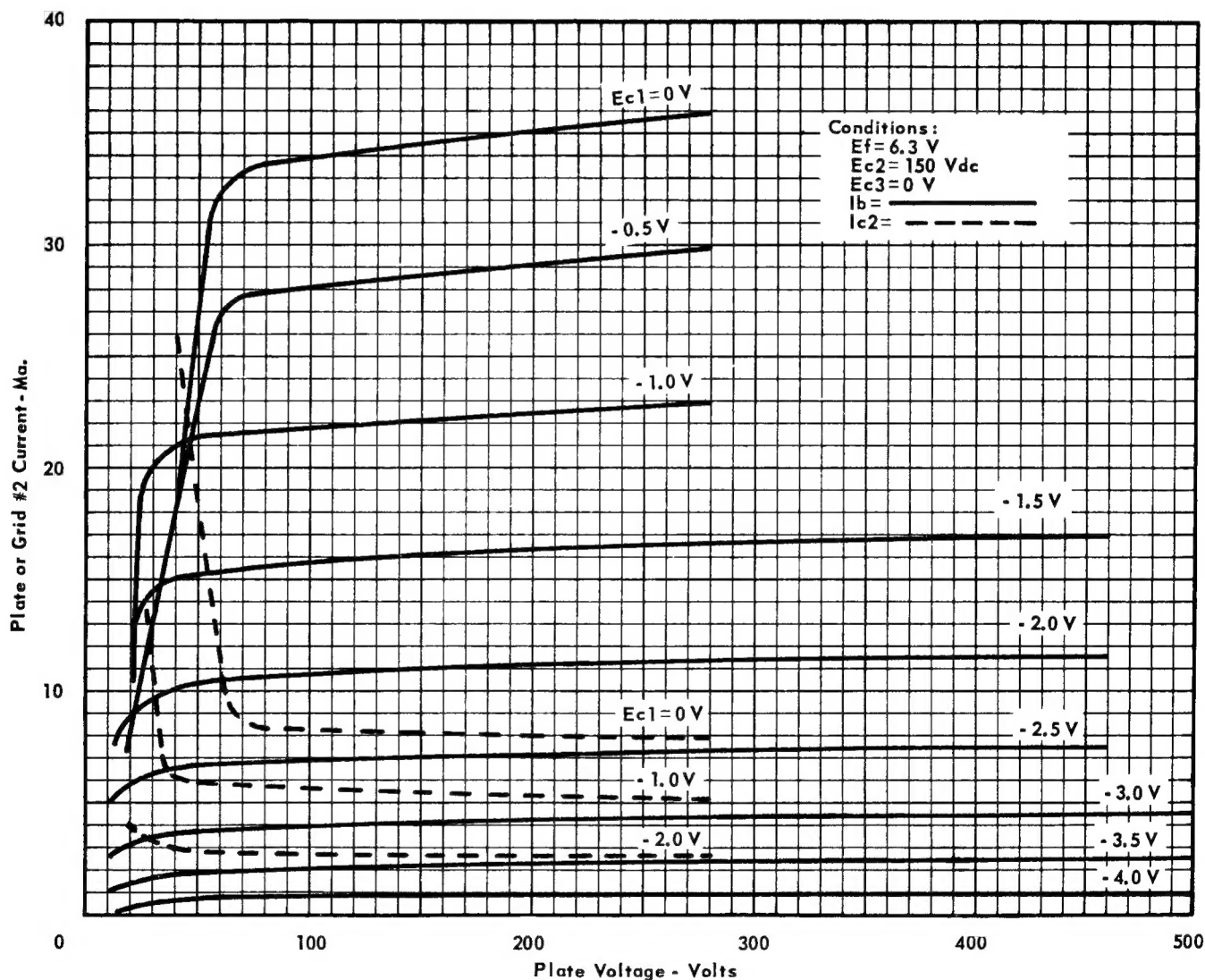


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AVERAGE PLATE CHARACTERISTICS

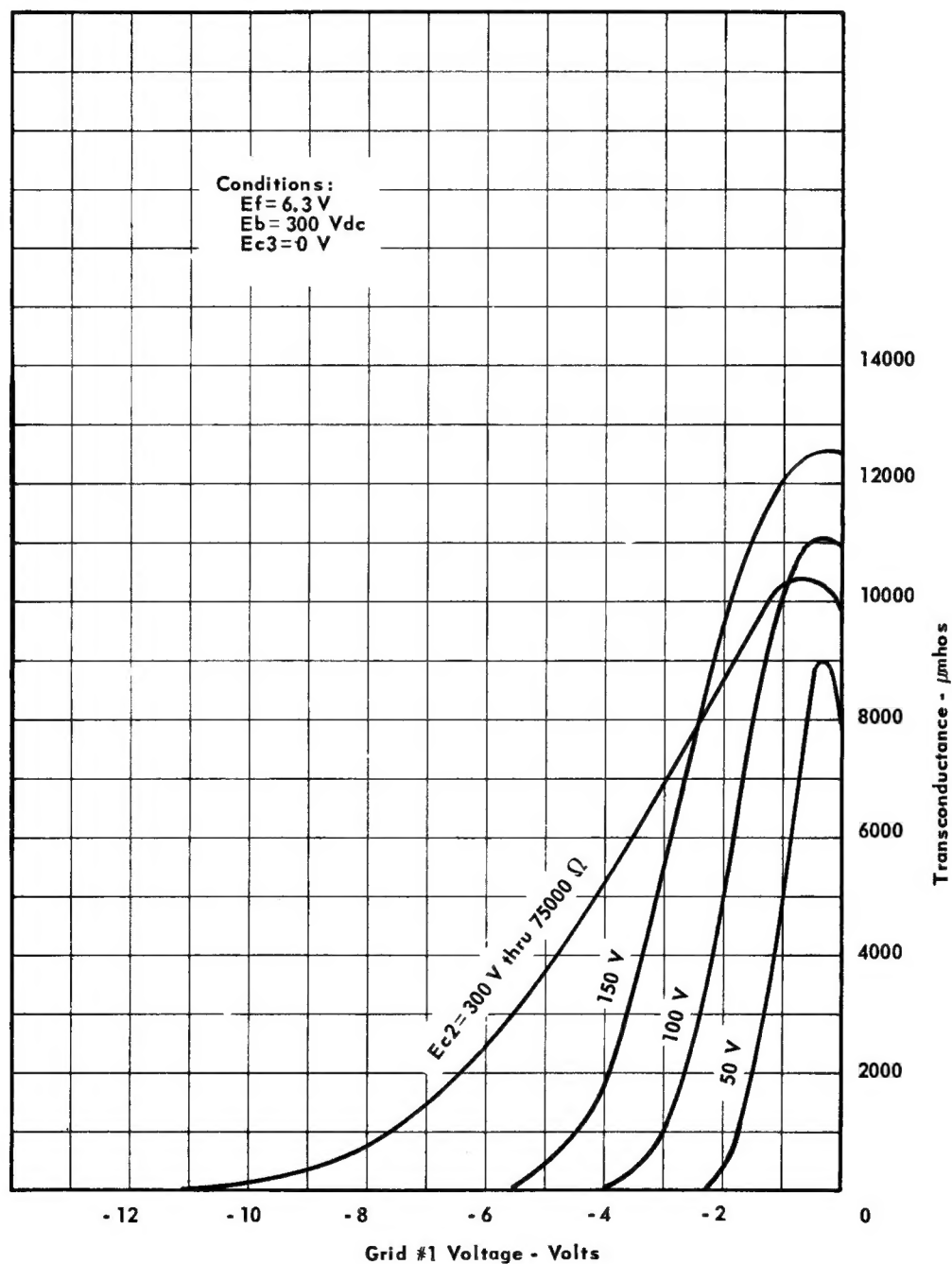


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PENTODE

AVERAGE CHARACTERISTICS



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